

APPENDIX I:
IMPAIRED RIVER SEGMENTS SUMMARY SHEETS


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41Q005_020	Water Type	FRESHWATER LAKE
Name	Benton Lake	Hydro Unit	10030102 - Upper Missouri
Location	BENTON LAKE T22N R3E	Basin	Upper Missouri
Size (Miles/Acres)	5600	Watershed	Missouri-Sun-Smith
Ecoregion	Northwestern Glaciated Plains	Use Class	B-3
County	CASCADE	Trophic Status and Trend	Eutrophic
Water Quality Category	5 - One or more uses are impaired and a TMDL is required.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural		✓			
Aquatic Life			✓		
Drinking Water			✓		
Industrial	✓				
Primary Contact Recreation		✓			
Warm Water Fishery			✓		

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
Excess Algal Growth	Agriculture Irrigated Crop Production	Primary Contact Recreation	NO
Nitrogen (Total)	Agriculture Irrigated Crop Production	Aquatic Life Warm Water Fishery	NO
Salinity	Agriculture Irrigated Crop Production	Agricultural Aquatic Life Warm Water Fishery	NO
Selenium	Agriculture Irrigated Crop Production	Aquatic Life Drinking Water Warm Water Fishery	NO
Sulfates	Agriculture Irrigated Crop Production	Aquatic Life Warm Water Fishery	NO

Assessment Information

Assessment Type	Associated Uses	Cc
	Agricultural Aquatic Life	

PHYSICAL/CHEMICAL	Drinking Water Industrial Primary Contact Recreation Warm Water Fishery	FAIR
Assessment Method	Associated Uses	
NA	NA	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41L001_040	Water Type	RIVER
Name	Cut Bank Creek	Hydro Unit	10030202 - Cut Bank
Location	CUT BANK CREEK, Blackfeet Reservation boundary to the mouth (Marias River)	Basin	Lower Missouri
Size (Miles/Acres)	23.1	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-2
County	GLACIER	Trophic Status and Trend	NA
Water Quality Category	5 - One or more uses are impaired and a TMDL is required.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life			✓		
Cold Water Fishery			✓		
Drinking Water	✓				
Industrial	✓				
Primary Contact Recreation			✓		

Impairment Information

Probable Causes	Probable Sources	Associated Uses	C
Low flow alterations	Flow Alterations from Water Diversions	Aquatic Life Cold Water Fishery	NO
Nitrate/Nitrite (Nitrite + Nitrate as N)	Irrigated Crop Production Municipal Point Source Discharges Non-irrigated Crop Production	Aquatic Life Cold Water Fishery Primary Contact Recreation	NO
Temperature, water	Flow Alterations from Water Diversions Irrigated Crop Production	Aquatic Life Cold Water Fishery	NO

Assessment Information

Assessment Type	Associated Uses	C
BIOLOGICAL	Primary Contact Recreation	FAIR
BIOLOGICAL	Aquatic Life Cold Water Fishery	GOOD
HABITAT	Primary Contact Recreation	FAIR
	Aquatic Life	

HABITAT	Cold Water Fishery	GOOD
PHYSICAL/CHEMICAL	Agricultural Drinking Water Industrial Primary Contact Recreation	FAIR
PHYSICAL/CHEMICAL	Aquatic Life Cold Water Fishery	GOOD
Assessment Method	Associated Uses	
Benthic macroinvertebrate surveys	Aquatic Life Cold Water Fishery	
Fish surveys	Aquatic Life Cold Water Fishery	
Land use information and location of sources	Aquatic Life Cold Water Fishery	
Non-fixed station physical/chemical monitoring (conventional pollutant only)	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	
Primary producer surveys (phytoplankton/periphyton/macrophyton)	Aquatic Life Cold Water Fishery Primary Contact Recreation	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41P002_010	Water Type	RIVER
Name	Dry Fork Marias River	Hydro Unit	10030203 - Marias
Location	DRY FORK MARIAS RIVER, Big Flat Coulee to the mouth (Marias River)	Basin	Lower Missouri
Size (Miles/Acres)	21	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-3
County	PONDERA, TOOLE	Trophic Status and Trend	NA
Water Quality Category	1 - All uses assessed and fully supported.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life	✓				
Drinking Water	✓				
Industrial	✓				
Primary Contact Recreation	✓				
Warm Water Fishery	✓				

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
NA	NA	NA	NA

Assessment Information

Assessment Type	Associated Uses	Cc
BIOLOGICAL	Aquatic Life Primary Contact Recreation Warm Water Fishery	FAIR
HABITAT	Aquatic Life Primary Contact Recreation Warm Water Fishery	FAIR
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Drinking Water Industrial Primary Contact Recreation Warm Water Fishery	FAIR
Assessment Method	Associated Uses	

Benthic macroinvertebrate surveys	Aquatic Life Warm Water Fishery
Fish surveys	Aquatic Life Warm Water Fishery
Non-fixed station physical/chemical monitoring (conventional pollutant only)	Agricultural Aquatic Life Drinking Water Industrial Warm Water Fishery
Primary producer surveys (phytoplankton/periphyton/macrophyton)	Agricultural Aquatic Life Industrial Primary Contact Recreation Warm Water Fishery
Visual observation, may not quantify some parameters; single season; by prof.	Agricultural Aquatic Life Industrial Primary Contact Recreation Warm Water Fishery

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41P001_010	Water Type	RIVER
Name	Marias River	Hydro Unit	10030203 - Marias
Location	MARIAS RIVER, Tiber Reservoir to the Two Medicine River-Cut Bank Creek Confluence	Basin	Lower Missouri
Size (Miles/Acres)	60	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-2
County	GLACIER, PONDERA, TOOLE	Trophic Status and Trend	NA
Water Quality Category	1 - All uses assessed and fully supported.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life	✓				
Cold Water Fishery	✓				
Drinking Water	✓				
Industrial	✓				
Primary Contact Recreation	✓				

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Condition
NA	NA	NA	NA

Assessment Information

Assessment Type	Associated Uses	Condition
BIOLOGICAL	Primary Contact Recreation	FAIR
BIOLOGICAL	Aquatic Life Cold Water Fishery	GOOD
HABITAT	Primary Contact Recreation	FAIR
HABITAT	Aquatic Life Cold Water Fishery	GOOD
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial	FAIR

	Primary Contact Recreation
Assessment Method	Associated Uses
Benthic macroinvertebrate surveys	Aquatic Life Cold Water Fishery
Ecological/habitat surveys	Aquatic Life Cold Water Fishery
Fish surveys	Aquatic Life Cold Water Fishery
Land use information and location of sources	Aquatic Life Cold Water Fishery Drinking Water
Non-fixed station physical/chemical monitoring (conventional pollutant only)	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation
Primary producer surveys (phytoplankton/periphyton/macrophyton)	Aquatic Life Cold Water Fishery
Quan. measurements of instream parms, channel morphology, floodplain; 1-2 seasons; by prof	Aquatic Life Cold Water Fishery
Surveys of fish and game biologists/other professionals	Aquatic Life Cold Water Fishery
Visual observation, may not quantify some parameters; single season; by prof.	Aquatic Life Cold Water Fishery Primary Contact Recreation

Comments**Overall Assessment**

NA

Use**Comment**

NA

NA

Cause**Comment**

NA

NA

Source**Comment**

NA

NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41Q001_011	Water Type	RIVER
Name	Missouri River	Hydro Unit	10030102 - Upper Missouri
Location	MISSOURI RIVER, Sun River to Rainbow Dam	Basin	Upper Missouri
Size (Miles/Acres)	7.6	Watershed	Missouri-Sun-Smith
Ecoregion	Northwestern Glaciated Plains	Use Class	B-2
County	CASCADE	Trophic Status and Trend	NA
Water Quality Category	5 - One or more uses are impaired and a TMDL is required.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life			✓		
Cold Water Fishery			✓		
Drinking Water			✓		
Industrial		✓			
Primary Contact Recreation	✓				

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
Chromium (total)	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery Drinking Water	NO
Mercury	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery	NO
Pentachlorobenzene	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery	NO
Physical substrate habitat alterations	Dam Construction (Other than Upstream Flood Control Projects) Industrial/Commercial Site Stormwater Discharge (Permittted) Irrigated Crop Production	Aquatic Life Cold Water Fishery	NO

Sedimentation/Siltation	Contaminated Sediments Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery	NO
Selenium	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery	NO
Solids (Suspended/Bedload)	Contaminated Sediments Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted)	Aquatic Life Cold Water Fishery Industrial	NO
Turbidity	Contaminated Sediments Dam Construction (Other than Upstream Flood Control Projects) Industrial Point Source Discharge Industrial/Commercial Site Stormwater Discharge (Permittted) Irrigated Crop Production	Aquatic Life Cold Water Fishery Industrial	NO

Assessment Information

Assessment Type	Associated Uses	Co
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	FAIR
Assessment Method	Associated Uses	
NA	NA	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41O002_090	Water Type	RIVER
Name	Muddy Creek	Hydro Unit	10030205 - Teton
Location	MUDDY CREEK, headwaters to mouth (Teton River)	Basin	Lower Missouri
Size (Miles/Acres)	82.7	Watershed	Marias
Ecoregion	Canadian Rockies, Northwestern Glaciated Plains	Use Class	B-2
County	PONDERA, TETON	Trophic Status and Trend	NA
Water Quality Category	3 - Insufficient data to assess any use.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural					
Aquatic Life					
Cold Water Fishery					
Drinking Water					
Industrial					
Primary Contact Recreation					

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Comments
NA	NA	NA	NA

Assessment Information

Assessment Type	Associated Uses	Comments
NA	NA	NA
Assessment Method	Associated Uses	
NA	NA	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA

Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41L001_010	Water Type	RIVER
Name	Old Maids Coulee	Hydro Unit	10030202 - Cut Bank
Location	OLD MAIDS COULEE, headwaters to the mouth (Cutbank Creek)	Basin	Lower Missouri
Size (Miles/Acres)	16.4	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-1
County	GLACIER	Trophic Status and Trend	NA
Water Quality Category	5 - One or more uses are impaired and a TMDL is required. 2B - Available data and/or information indicate that a water quality standard is exceeded due to natural source in the absence of any identified anthropogenic sources.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural			✓		
Aquatic Life			✓		
Cold Water Fishery					✓
Drinking Water	✓				
Industrial			✓		
Primary Contact Recreation			✓		

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
Ammonia (Total)	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges	Aquatic Life Primary Contact Recreation	NO
Chloride	Crop Production (Crop Land or Dry Land)	Agricultural Aquatic Life Industrial	NO
Nitrate/Nitrite (Nitrite + Nitrate as N)	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges	Aquatic Life Primary Contact Recreation	NO
Phosphorus (Total)	Crop Production (Crop Land or Dry Land) Municipal Point Source Discharges	Aquatic Life Primary Contact Recreation	NO
Specific Conductance	Crop Production (Crop Land or Dry Land)	Agricultural Aquatic Life Industrial	NO
Total Dissolved Solids	Crop Production (Crop Land or Dry Land)	Agricultural Aquatic Life Industrial	NO

Assessment Information

Assessment Type	Associated Uses	Co
BIOLOGICAL	Primary Contact Recreation	FAIR
BIOLOGICAL	Aquatic Life Cold Water Fishery	GOOD
HABITAT	Primary Contact Recreation	FAIR
HABITAT	Aquatic Life Cold Water Fishery	GOOD
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	FAIR
Assessment Method	Associated Uses	
Benthic macroinvertebrate surveys	Aquatic Life Cold Water Fishery	
Land use information and location of sources	Aquatic Life Cold Water Fishery	
Non-fixed station physical/chemical monitoring (conventional pollutant only)	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	
Primary producer surveys (phytoplankton/periphyton/macrophyton)	Aquatic Life Cold Water Fishery Primary Contact Recreation	
Visual observation, may not quantify some parameters; single season; by prof.	Aquatic Life Cold Water Fishery	

Comments

Overall Assessment	
NA	
Use	Comment
Cold Water Fishery	There is insufficient information to evaluate the cold water fishery for Old Maids C does not support the use likely due to natural conditions (Category 2B).
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41O001_010	Water Type	RIVER
Name	Teton River	Hydro Unit	10030205 - Teton
Location	TETON RIVER, Muddy Creek to the mouth (Marias River)	Basin	Lower Missouri
Size (Miles/Acres)	110.6	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-3
County	CHOUTEAU, TETON	Trophic Status and Trend	NA
Water Quality Category	4A - All TMDLs needed have been completed.		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life		✓			
Drinking Water	✓				
Industrial	✓				
Primary Contact Recreation	✓				
Warm Water Fishery		✓			

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
Low flow alterations	Flow Alterations from Water Diversions	Aquatic Life Warm Water Fishery	NO
Salinity	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization	Aquatic Life Warm Water Fishery	YES
Sedimentation/Siltation	Channelization Highways, Roads, Bridges, Infrastructure (New Construction) Impacts from Hydrostructure Flow Regulation/modification Streambank Modifications/destablization	Aquatic Life Warm Water Fishery	YES
Sulfates	Agriculture Impacts from Hydrostructure Flow Regulation/modification Irrigated Crop Production Streambank Modifications/destablization	Aquatic Life Warm Water Fishery	YES

Total Dissolved Solids	Agriculture Irrigated Crop Production	Aquatic Life Warm Water Fishery	YES
------------------------	--	------------------------------------	-----

Assessment Information

Assessment Type	Associated Uses	Co
BIOLOGICAL	Aquatic Life Warm Water Fishery	GOOD
HABITAT	Aquatic Life	GOOD
PHYSICAL/CHEMICAL	Agricultural Aquatic Life Drinking Water Industrial Primary Contact Recreation Warm Water Fishery	GOOD
Assessment Method	Associated Uses	
NA	NA	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41M001_010	Water Type	RIVER
Name	Two Medicine River	Hydro Unit	10030201 - Two Medicine
Location	TWO MEDICINE RIVER, Birch Creek to the mouth (Marias River)	Basin	Lower Missouri
Size (Miles/Acres)	4.3	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-1
County	GLACIER, PONDERA	Trophic Status and Trend	NA
Water Quality Category	2 - Waters for which available data and/or information indicate that some, but not all of the beneficial uses are supported. 2A - Available data and/or information indicate that some, but not all of the beneficial uses are :		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural	✓				
Aquatic Life	✓				
Cold Water Fishery					✓
Drinking Water	✓				
Industrial	✓				
Primary Contact Recreation	✓				

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
NA	NA	NA	NA

Assessment Information

Assessment Type	Associated Uses	Cc
BIOLOGICAL	Primary Contact Recreation	FAIR
BIOLOGICAL	Aquatic Life Cold Water Fishery	GOOD
HABITAT	Primary Contact Recreation	FAIR
HABITAT	Aquatic Life Cold Water Fishery	GOOD
PHYSICAL/CHEMICAL	Agricultural Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	FAIR

PHYSICAL/CHEMICAL	Aquatic Life	GOOD
Assessment Method	Associated Uses	
Benthic macroinvertebrate surveys	Aquatic Life Cold Water Fishery	
Fish surveys	Aquatic Life Cold Water Fishery	
Land use information and location of sources	Aquatic Life Cold Water Fishery	
Non-fixed station physical/chemical monitoring (conventional pollutant only)	Agricultural Aquatic Life Cold Water Fishery Drinking Water Industrial Primary Contact Recreation	
Primary producer surveys (phytoplankton/periphyton/macrophyton)	Aquatic Life Cold Water Fishery Primary Contact Recreation	
Visual observation, may not quantify some parameters; single season; by prof.	Aquatic Life Cold Water Fishery	

Comments

Overall Assessment	
NA	
Use	Comment
Cold Water Fishery	There is insufficient information to evaluate the cold water fishery use for the Two River; it does not support the use likely due to natural conditions (Category 2B).
Cause	Comment
NA	NA
Source	Comment
NA	NA


[Close Window](#)
[Print Window](#)
[Export Data](#)

2006 Water Quality Information

Water Information

Waterbody Id	MT41P004_010	Water Type	RIVER
Name	Willow Creek	Hydro Unit	10030204 - Willow
Location	WILLOW CREEK, headwaters to mouth at Tiber Reservoir	Basin	Lower Missouri
Size (Miles/Acres)	71.9	Watershed	Marias
Ecoregion	Northwestern Glaciated Plains	Use Class	B-2
County	TOOLE	Trophic Status and Trend	NA
Water Quality Category	2 - Waters for which available data and/or information indicate that some, but not all of the beneficial uses are supported. 2A - Available data and/or information indicate that some, but not all of the beneficial uses are :		

Beneficial Use Support Information

Use Name	Fully Supporting	Partially Supporting	Not Supporting	Threatened	Insufficient Information
Agricultural					
Aquatic Life	✓				
Drinking Water	✓				
Industrial					
Primary Contact Recreation	✓				
Warm Water Fishery	✓				

Impairment Information

Probable Causes	Probable Sources	Associated Uses	Cc
NA	NA	NA	NA

Assessment Information

Assessment Type	Associated Uses	Cc
BIOLOGICAL	Warm Water Fishery	GOOD
HABITAT	Aquatic Life	GOOD
PATHOGEN INDICATORS	Drinking Water Primary Contact Recreation	GOOD
PHYSICAL/CHEMICAL	Drinking Water Primary Contact Recreation Warm Water Fishery	GOOD
Assessment Method	Associated Uses	
NA	NA	

Comments

Overall Assessment	
NA	
Use	Comment
NA	NA
Cause	Comment
NA	NA
Source	Comment
NA	NA